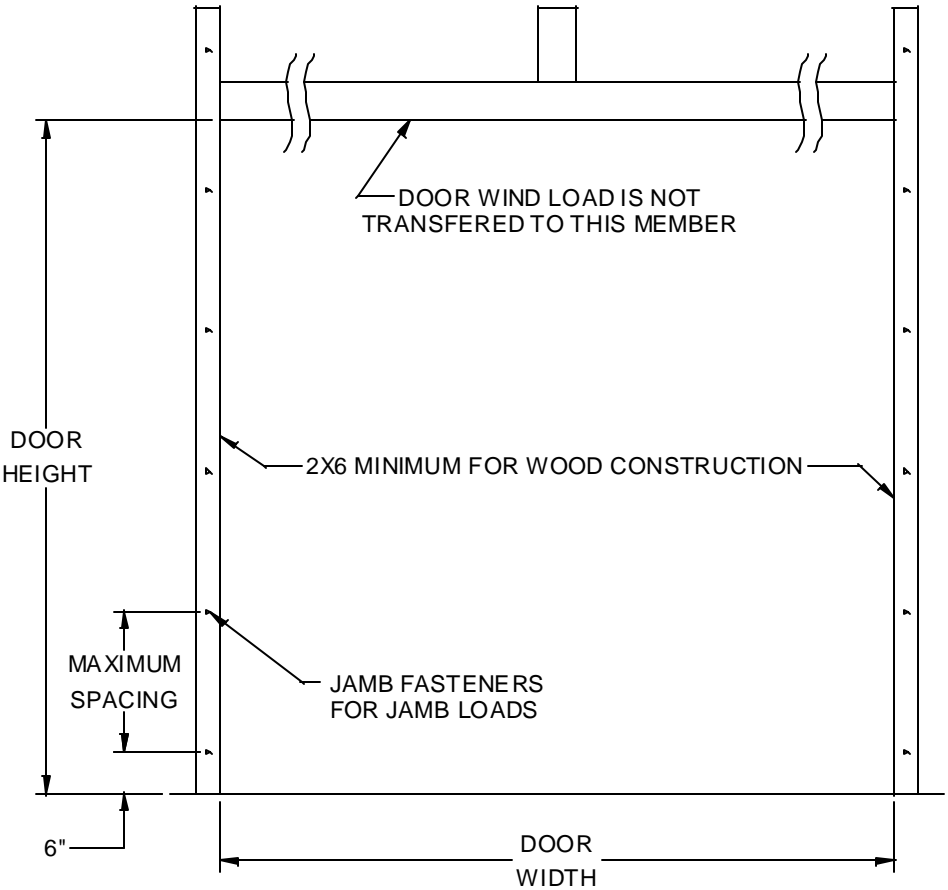


WOOD CONSTRUCTION  
WITHOUT VERTICAL POSTS

JAMB ATTACHMENT WITHOUT VERTICAL POST				SPRUCE, PINE, FIR (SPF)		SOUTHERN YELLOW PINE (SYP)	
				16d X 3 1/2" NAIL	3/8" X 3" LAG SCREW	16d X 3 1/2" NAIL	3/8" X 3" LAG SCREW
DOOR WIDTH	MAX POSITIVE PRESSURE	MAX DOOR LOAD	LOAD PER JAMB	MAX SPACING	MAX SPACING	MAX SPACING	MAX SPACING
(FEET)	(PSF)	(LBS)	(LBS)	(INCHES)	(INCHES)	(INCHES)	(INCHES)
8	30	1920	960	7	24	13	24
8	40	2560	1280	5	24	10	24
8	50	3200	1600	4	23	8	24
8	60	3840	1920	N/A	19	6	24
8	70	4480	2240	N/A	17	5	24
8	80	5120	2560	N/A	14	5	22
9	30	2160	1080	6	24	11	24
9	40	2880	1440	4	24	9	24
9	50	3600	1800	4	21	7	24
9	60	4320	2160	N/A	17	6	24
9	70	5040	2520	N/A	15	5	22
9	80	5760	2880	N/A	13	4	19
16	30	3840	1920	N/A	19	6	24
16	40	5120	2560	N/A	14	5	22
16	50	6400	3200	N/A	12	4	17
16	60	7680	3840	N/A	10	N/A	14
16	70	8960	4480	N/A	8	N/A	12
16	80	10240	5120	N/A	7	N/A	11
18	30	4320	2160	N/A	17	6	24
18	40	5760	2880	N/A	13	4	19
18	50	7200	3600	N/A	10	N/A	15
18	60	8640	4320	N/A	9	N/A	13
18	70	10080	5040	N/A	7	N/A	11
18	80	11520	5760	N/A	6	N/A	10



GENERAL NOTES:

- HIGHEST FASTENER TO BE INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
- ALLOWABLE LOAD OF FASTENER IS BASED ON THE SPECIES OF WOOD THE STRUCTURE IS CONSTRUCTED OF.
- SPF SPECIFIC GRAVITY = .42
- SYP SPECIFIC GRAVITY = .55
- SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS IN ADDITION TO OTHER LOADS.
- LOADS BASED ON 8' HIGH DOOR.
- FOR DOOR WIDTHS NOT LISTED USE NEXT WIDER WIDTH LISTED.

NAIL NOTES:

- NAILS MUST CONFORM TO ASTM F1667.
- SPACING CLOSER THAN 4 INCHES NOT RECOMMENDED.
- STAGGER NAILS TO AVOID SPLITTING OF WOOD.
- ALLOWABLE LOADS BASED ON 2 INCHES OF EMBEDMENT.
- SPF ALLOWABLE LOAD = 67 LBS PER NAIL.
- SYP ALLOWABLE LOAD = 128 LBS PER NAIL.

LAG SCREW NOTES:

- LAG SCREWS MUST CONFORM TO ANSI/ASME STANDARD B18.2.1.
- PRE-DRILL 3/16" DIA. HOLES.
- USE 1 INCH O.D. WASHERS.
- ALLOWABLE LOADS BASED ON 1 1/2 INCHES NOMINAL EMBEDMENT, 1 1/4 INCHES OF EFFECTIVE THREAD.
- SPF ALLOWABLE LOAD = 385 LBS PER LAG SCREW.
- SYP ALLOWABLE LOAD = 577 LBS PER LAB SCREW.

C	WAS 2X4 MIN ON WOOD CONSTRUCTION	4933	06/21/05
B	REDRAWN, ADDED SHTS 2-6	4404	03/06/03
A	PRODUCT RELEASE		01/23/97
REV.	DESCRIPTION	ECN. NO.	DATE

TOLERANCES: DIMENSIONS ARE IN INCHES TWO PLACE (XX) ±.03 THREE PLACE (XXX) ±.015 ANGLES ± 1° UNLESS OTHERWISE SPECIFIED	MATERIAL:	SCALE: NONE
		DRAWN BY: G. WEDEKIND
	FINISH:	CHECKED BY: G. WEDEKIND
		DATE: 3/1/03
		ECN. NO.: 4404



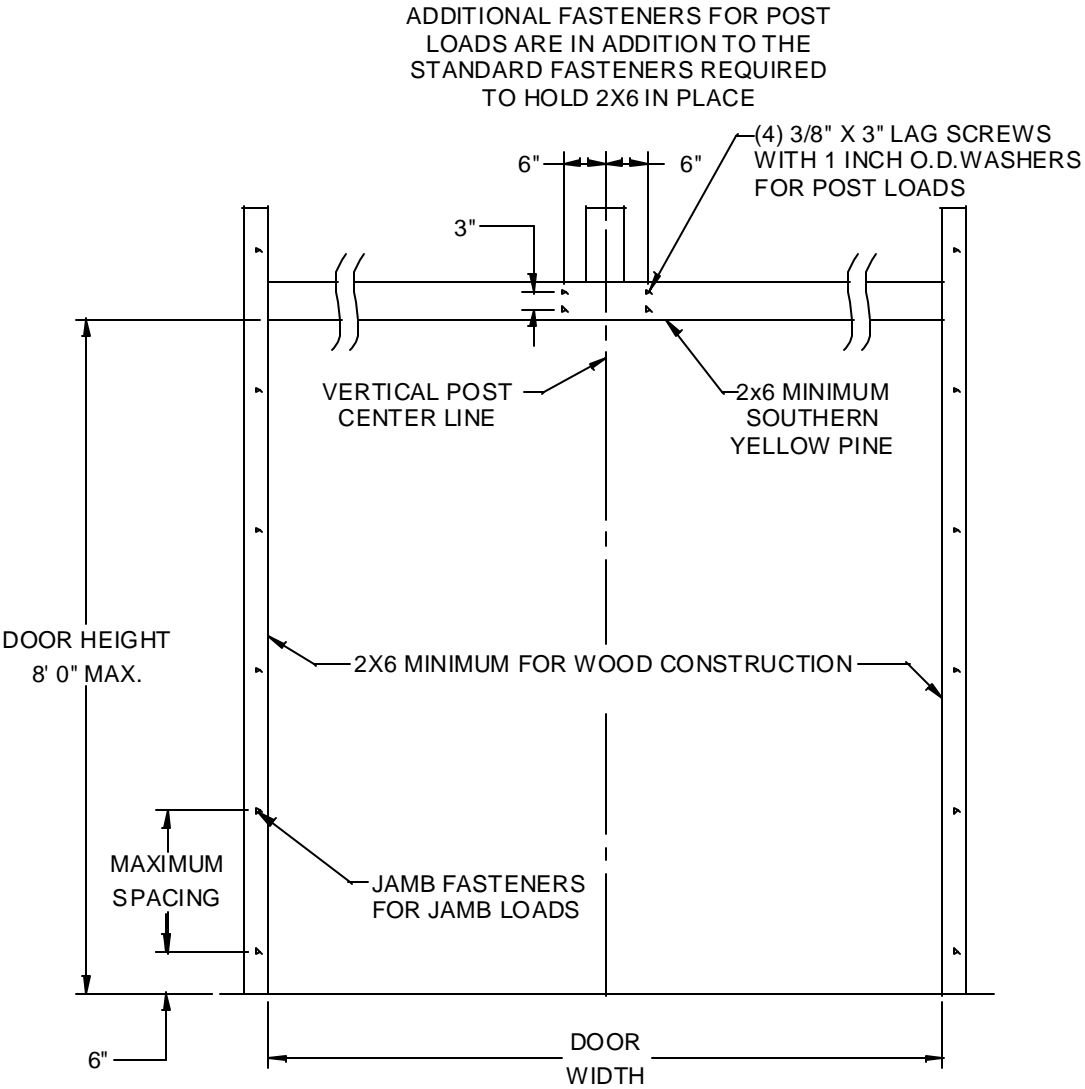
1101 EAST RIVER ROAD  
DIXON, IL 61021

TITLE: CHART, JAMB ATTACHEMENT		
NO. P-1398	SHEET 1 OF 6	REV C

WOOD CONSTRUCTION  
(1) VERTICAL POST

JAMB ATTACHMENT WITH  
(1) VERTICAL POST

							SPRUCE, PINE, FIR (SPF)		SOUTHERN YELLOW PINE (SYP)	
							16d X 3 1/2" NAIL	3/8" X 3" LAG SCREW	16d X 3 1/2" NAIL	3/8" X 3" LAG SCREW
DOOR WIDTH	DOOR HEIGHT	MAX POSITIVE PRESSURE	MAX DOOR LOAD	POST LOAD AT HEADER	POST LOAD AT FLOOR	LOAD PER JAMB	MAX SPACING	MAX SPACING	MAX SPACING	MAX SPACING
(FEET)	(FEET)	(PSF)	(LBS)	(LBS)	(LBS)	(LBS)	(INCHES)	(INCHES)	(INCHES)	(INCHES)
16	7	40	4480	1120	1120	1120	5	24	10	24
16	8	40	5120	1280	1280	1280	5	24	10	24
16	7	50	5600	1400	1400	1400	4	23	8	24
16	8	50	6400	1600	1600	1600	4	23	8	24
16	7	60	6720	1680	1680	1680	N/A	19	6	24
16	8	60	7680	1920	1920	1920	N/A	19	6	24
18	7	40	5040	1260	1260	1260	4	24	9	24
18	8	40	5760	1440	1440	1440	4	24	9	24
18	7	50	6300	1575	1575	1575	4	21	7	24
18	8	50	7200	1800	1800	1800	4	21	7	24
18	7	60	7560	1890	1890	1890	N/A	17	6	24
18	8	60	8640	2160	2160	2160	N/A	17	6	24




- GENERAL NOTES:**
- HIGHEST FASTENER TO BE INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
  - ALLOWABLE LOAD OF FASTENER IS BASED ON THE SPECIES OF WOOD THE STRUCTURE IS CONSTRUCTED OF.
  - SPF SPECIFIC GRAVITY = .42
  - SYP SPECIFIC GRAVITY = .55
  - SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS IN ADDITION TO OTHER LOADS.
  - FOR DOOR WIDTHS NOT LISTED USE NEXT WIDER WIDTH.

- NAIL NOTES:**
- NAILS MUST CONFORM TO ASTM F1667.
  - SPACING CLOSER THAN 4 INCHES NOT RECOMMENDED.
  - STAGGER NAILS TO AVOID SPLITTING OF WOOD.
  - ALLOWABLE LOADS BASED ON 2 INCHES OF EMBEDMENT.
  - SPF ALLOWABLE LOAD = 67 LBS PER NAIL.
  - SYP ALLOWABLE LOAD = 128 LBS PER NAIL.

- LAG SCREW NOTES:**
- LAG SCREWS MUST CONFORM TO ANSI/ASME STANDARD B18.2.1.
  - PRE-DRILL 3/16" DIA. HOLES.
  - USE 1 INCH O.D. WASHERS.
  - ALLOWABLE LOADS BASED ON 1 1/2 INCHES NOMINAL EMBEDMENT, 1 1/4 INCHES OF EFFECTIVE THREAD.
  - SPF ALLOWABLE LOAD = 385 LBS PER LAG SCREW.
  - SYP ALLOWABLE LOAD = 577 LBS PER LAB SCREW.

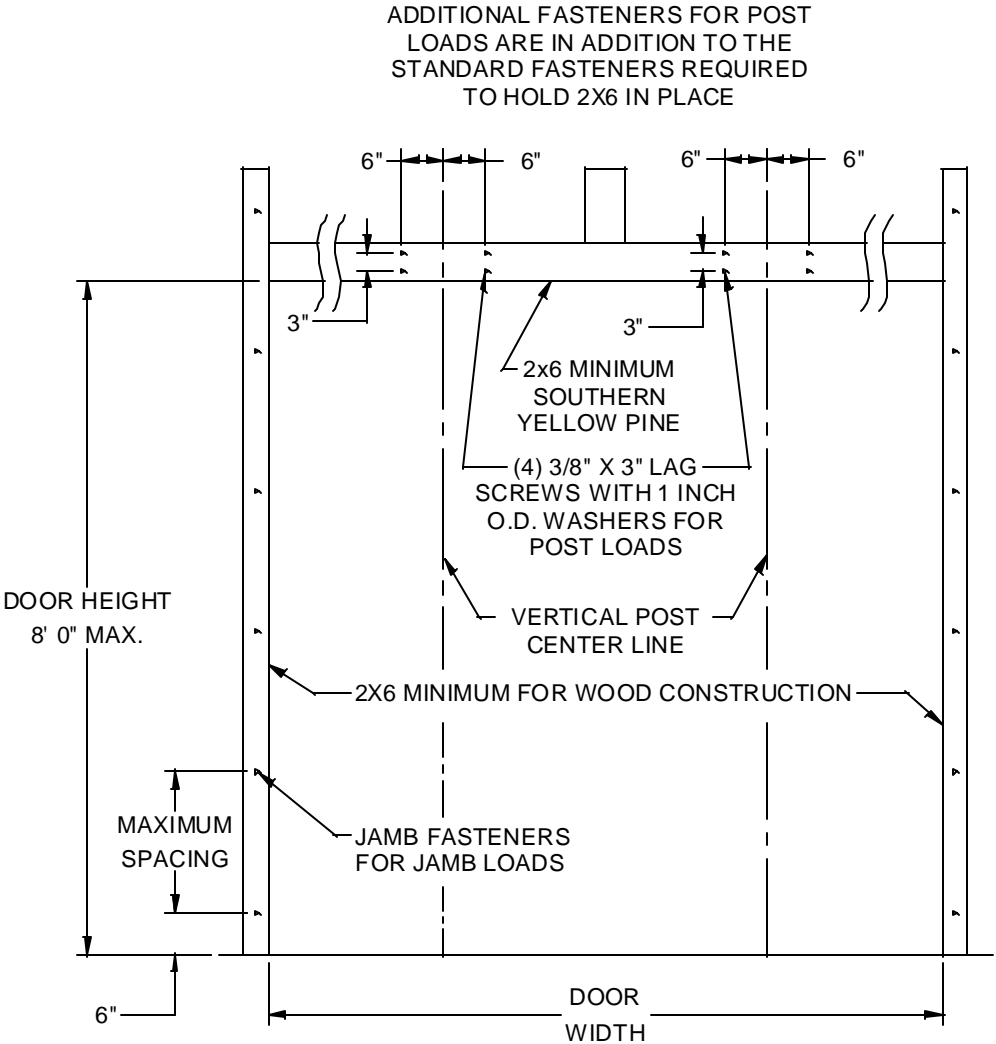
REV.	DESCRIPTION	ECN. NO.	DATE

TOLERANCES: DIMENSIONS ARE IN INCHES TWO PLACE (XX) ± .03 THREE PLACE (XXX) ± .015 ANGLES ± 1° UNLESS OTHERWISE SPECIFIED	MATERIAL:	SCALE: NONE	 1101 EAST RIVER ROAD DIXON, IL 61021	TITLE: CHART, JAMB ATTACHEMENT		
		DRAWN BY: G. WEDEKIND		NO. P-1398		
		CHECKED BY: G. WEDEKIND				
	FINISH:	DATE: 3/1/03		REV B		
		ECN. NO.:				

WOOD CONSTRUCTION  
(2) VERTICAL POSTS

JAMB ATTACHMENT WITH  
(2) VERTICAL POST

							SPRUCE, PINE, FIR (SPF)		SOUTHERN YELLOW PINE (SYP)	
							16d X 3 1/2" NAIL	3/8" X 3" LAG SCREW	16d X 3 1/2" NAIL	3/8" X 3" LAG SCREW
DOOR WIDTH	DOOR HEIGHT	MAX POSITIVE PRESSURE	MAX DOOR LOAD	POST LOAD AT HEADER	POST LOAD AT FLOOR	LOAD PER JAMB	MAX SPACING	MAX SPACING	MAX SPACING	MAX SPACING
(FEET)	(FEET)	(PSF)	(LBS)	(LBS)	(LBS)	(LBS)	(INCHES)	(INCHES)	(INCHES)	(INCHES)
16	7	60	6720	1041	1041	1278	4	24	8	24
16	8	60	7680	1190	1190	1460	4	24	8	24
16	7	65	7280	1128	1128	1384	4	23	8	24
16	8	65	8320	1289	1289	1582	4	23	8	24
16	7	70	7840	1215	1215	1491	4	22	7	24
16	8	70	8960	1388	1388	1704	4	22	7	24
16	7	75	8400	1301	1301	1597	4	20	7	24
16	8	75	9600	1487	1487	1825	4	20	7	24
18	7	60	7560	1172	1172	1435	4	23	7	24
18	8	60	8640	1340	1340	1640	4	23	7	24
18	7	65	8190	1270	1270	1554	4	21	7	24
18	8	65	9360	1452	1452	1776	4	21	7	24
18	7	70	8820	1368	1368	1674	N/A	19	6	24
18	8	70	10080	1563	1563	1913	N/A	19	6	24
18	7	75	9450	1466	1466	1793	N/A	18	6	24
18	8	75	10800	1675	1675	2050	N/A	18	6	24



- GENERAL NOTES:**
- HIGHEST FASTENER TO BE INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
  - ALLOWABLE LOAD OF FASTENER IS BASED ON THE SPECIES OF WOOD THE STRUCTURE IS CONSTRUCTED OF.
  - SPF SPECIFIC GRAVITY = .42
  - SYP SPECIFIC GRAVITY = .55
  - SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS IN ADDITION TO OTHER LOADS.
  - FOR DOOR WIDTHS NOT LISTED USE NEXT WIDER WIDTH.

- NAIL NOTES:**
- NAILS MUST CONFORM TO ASTM F1667.
  - SPACING CLOSER THAN 4 INCHES NOT RECOMMENDED.
  - STAGGER NAILS TO AVOID SPLITTING OF WOOD.
  - ALLOWABLE LOADS BASED ON 2 INCHES OF EMBEDMENT.
  - SPF ALLOWABLE LOAD = 67 LBS PER NAIL.
  - SYP ALLOWABLE LOAD = 128 LBS PER NAIL.

- LAG SCREW NOTES:**
- LAG SCREWS MUST CONFORM TO ANSI/ASME STANDARD B18.2.1.
  - PRE-DRILL 3/16" DIA. HOLES.
  - USE 1 INCH O.D. WASHERS.
  - ALLOWABLE LOADS BASED ON 1 1/2 INCHES NOMINAL EMBEDMENT, 1 1/4 INCHES OF EFFECTIVE THREAD.
  - SPF ALLOWABLE LOAD = 385 LBS PER LAG SCREW.
  - SYP ALLOWABLE LOAD = 577 LBS PER LAB SCREW.

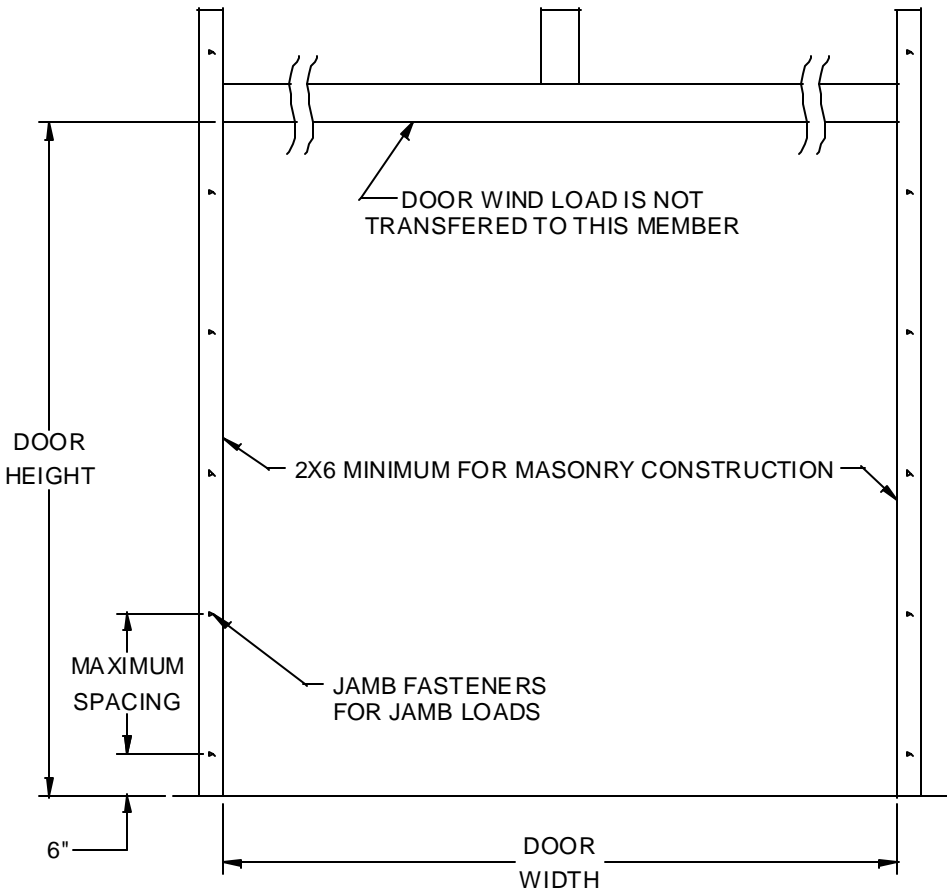
REV.	DESCRIPTION	ECN. NO.	DATE
TITLE: CHART, JAMB ATTACHEMENT			
NO. P-1398		SHEET 3 OF 6	REV B

TOLERANCES: DIMENSIONS ARE IN INCHES TWO PLACE (XX) ±.03 THREE PLACE (XXX) ±.015 ANGLES ± 1° UNLESS OTHERWISE SPECIFIED	MATERIAL:	SCALE: NONE
		DRAWN BY: G. WEDEKIND
		CHECKED BY: G. WEDEKIND
	FINISH:	DATE: 3/1/03
		ECN. NO.:



# MASONRY CONSTRUCTION WITHOUT VERTICAL POSTS

JAMB ATTACHMENT WITHOUT VERTICAL POST				CMU BLOCK	2000 PSI CONCRETE				3000 PSI CONCRETE		
				1/4" X 3" ITW TAPCON	1/4" X 3" ITW TAPCON	5/16" ITW SLEEVE ANCHOR	3/8" ITW WEDGE ANCHOR	1/4" X 3" ITW TAPCON	5/16" ITW SLEEVE ANCHOR	3/8" ITW WEDGE ANCHOR	
DOOR WIDTH	MAX POSITIVE PRESSURE	MAX DOOR LOAD	LOAD PER JAMB	MAX SPACING	MAX SPACING	MAX SPACING	MAX SPACING	MAX SPACING	MAX SPACING	MAX SPACING	
(FEET)	(PSF)	(LBS)	(LBS)	(INCHES)	(INCHES)	(INCHES)	(INCHES)	(INCHES)	(INCHES)	(INCHES)	
8	30	1920	960	15	24	24	24	24	24	24	
8	40	2560	1280	12	21	24	24	24	24	24	
8	50	3200	1600	9	17	21	24	23	24	24	
8	60	3840	1920	8	14	18	21	19	24	24	
8	70	4480	2240	7	12	15	18	16	21	23	
8	80	5120	2560	6	11	13	16	14	18	20	
9	30	2160	1080	14	24	24	24	24	24	24	
9	40	2880	1440	10	19	23	24	24	24	24	
9	50	3600	1800	8	15	19	22	20	24	24	
9	60	4320	2160	7	12	16	19	17	21	24	
9	70	5040	2520	6	11	13	16	14	18	20	
9	80	5760	2880	5	9	12	14	13	16	18	
16	30	3840	1920	8	14	18	21	19	24	24	
16	40	5120	2560	6	11	13	16	14	18	20	
16	50	6400	3200	5	8	11	13	11	14	16	
16	60	7680	3840	4	7	9	11	10	12	13	
16	70	8960	4480	N/A	6	8	9	8	10	11	
16	80	10240	5120	N/A	5	7	8	7	9	10	
18	30	4320	2160	7	12	16	19	17	21	24	
18	40	5760	2880	5	9	12	14	13	16	18	
18	50	7200	3600	4	7	9	11	10	13	14	
18	60	8640	4320	N/A	6	8	9	8	11	12	
18	70	10080	5040	N/A	5	7	8	7	9	10	
18	80	11520	5760	N/A	5	6	7	6	8	9	



## GENERAL NOTES:

1. HIGHEST FASTENER TO BE INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
2. ALLOWABLE LOAD OF FASTENER IS BASED ON THE MATERIAL THE STRUCTURE IS CONSTRUCTED OF.
3. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS IN ADDITION TO OTHER LOADS.
4. LOADS BASED ON 8' HIGH DOOR.
5. FOR DOOR WIDTHS NOT LISTED USE NEXT WIDER WIDTH.
6. 4:1 SAFETY FACTOR USED ON ALL MASONRY FASTENERS.

## TAPCON NOTES:

1. SPACING CLOSER THAN 4 INCHES NOT RECOMMENDED.
2. TAPCONS ARE TO BE 2 1/2" MINIMUM FROM EDGE OF BLOCK OR CONCRETE.
3. USE 1 INCH O.D. WASHERS.
4. ALLOWABLE LOADS BASED ON 1 1/2" INCHES OF EMBEDMENT.
5. CMU ALLOWABLE LOAD = 154 LBS PER TAPCON.
6. 2000 PSI CONCRETE ALLOWABLE LOAD = 280 LBS PER TAPCON.
7. 3000 PSI CONCRETE ALLOWABLE LOAD = 380 LBS PER TAPCON.

## 5/16" SLEEVE ANCHOR NOTES:

1. SPACING CLOSER THAN 4 INCHES NOT RECOMMENDED.
2. ANCHORS ARE TO BE 2 1/2" MINIMUM FROM EDGE OF CONCRETE.
3. USE 1 INCH O.D. WASHERS.
4. ALLOWABLE LOADS BASED ON 1 1/4 INCHES EMBEDMENT.
5. 2000 PSI CONCRETE ALLOWABLE LOAD = 350 LBS PER ANCHOR.
6. 3000 PSI CONCRETE ALLOWABLE LOAD = 480 LBS PER ANCHOR.

## 3/8" WEDGE ANCHOR NOTES:

1. SPACINGS CLOSER THAN 5 INCHES NOT RECOMMENDED.
2. ANCHORS ARE TO BE 2 1/2" MINIMUM FROM EDGE OF CONCRETE.
3. USE 1 INCH O.D. WASHERS.
4. ALLOWABLE LOADS BASED ON 1 1/2 INCHES OF EMBEDMENT.
5. 2000 PSI CONCRETE ALLOWABLE LOAD = 420 LBS PER ANCHOR.
6. 3000 PSI CONCRETE ALLOWABLE LOAD = 530 LBS PER ANCHOR.

REV.	DESCRIPTION	ECN. NO.	DATE

TOLERANCES: DIMENSIONS ARE IN INCHES TWO PLACE (XX) ±.03 THREE PLACE (XXX) ±.015 ANGLES ± 1° UNLESS OTHERWISE SPECIFIED	MATERIAL:	SCALE: NONE
		DRAWN BY: G. WEDEKIND
	FINISH:	CHECKED BY: G. WEDEKIND
		DATE: 3/1/03
		ECN. NO.:



1101 EAST RIVER ROAD  
DIXON, IL 61021

TITLE: CHART, JAMB ATTACHEMENT		
NO. P-1398	SHEET 4 OF 6	REV B

MASONRY CONSTRUCTION
(1) VERTICAL POST

- GENERAL NOTES:
- 1. HIGHEST FASTENER TO BE INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
  - 2. ALLOWABLE LOAD OF FASTENER IS BASED ON THE MATERIAL THE STRUCTURE IS CONSTRUCTED OF.
  - 3. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS IN ADDITION TO OTHER LOADS.
  - 4. FOR DOOR WIDTHS NOT LISTED USE NEXT WIDER WIDTH.
  - 5. 4:1 SAFETY FACTOR USED ON ALL MASONRY FASTENERS.

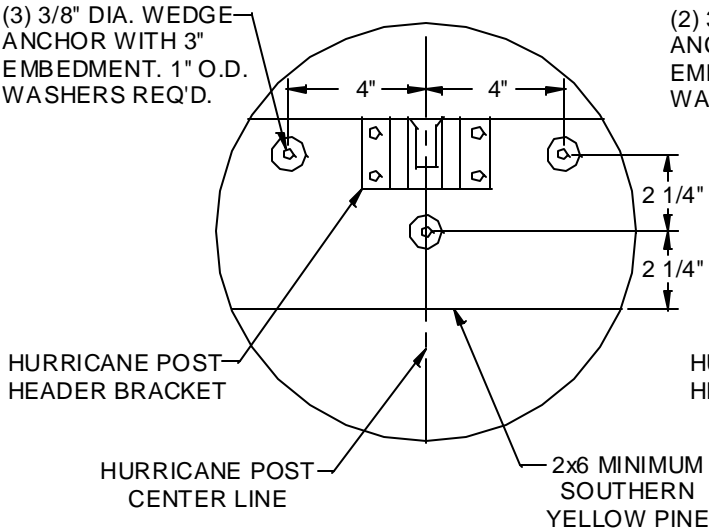
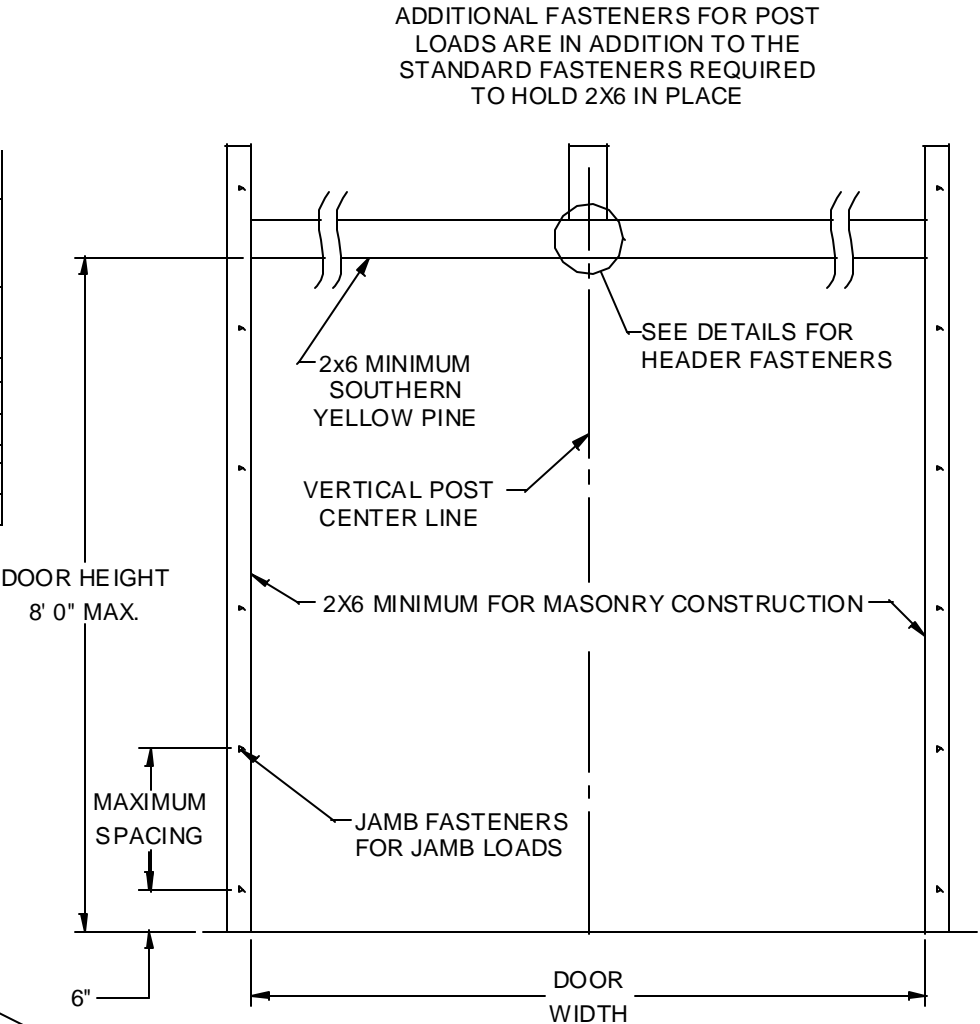
- TAPCON NOTES:
- 1. SPACING CLOSER THAN 3 INCHES NOT RECOMMENDED.
  - 2. TAPCONS ARE TO BE 2 1/2 INCHES MINIMUM FROM EDGE OF CONCRETE.
  - 3. USE 1 INCH O.D. WASHERS.
  - 4. ALLOWABLE LOADS BASED ON 1 1/2" INCHES OF EMBEDMENT.
  - 5. 2000 PSI CONCRETE ALLOWABLE LOAD = 280 LBS PER TAPCON.
  - 6. 3000 PSI CONCRETE ALLOWABLE LOAD = 380 LBS PER TAPCON.

- 5/16" SLEEVE ANCHOR NOTES:
- 1. SPACING CLOSER THAN 4 INCHES NOT RECOMMENDED.
  - 2. ANCHORS ARE TO BE 2 1/2 INCHES MINIMUM FROM EDGE OF CONCRETE.
  - 3. USE 1 INCH O.D. WASHERS.
  - 4. ALLOWABLE LOADS BASED ON 1 1/4 INCHES EMBEDMENT.
  - 5. 2000 PSI CONCRETE ALLOWABLE LOAD = 350 LBS PER ANCHOR.
  - 6. 3000 PSI CONCRETE ALLOWABLE LOAD = 480 LBS PER ANCHOR.

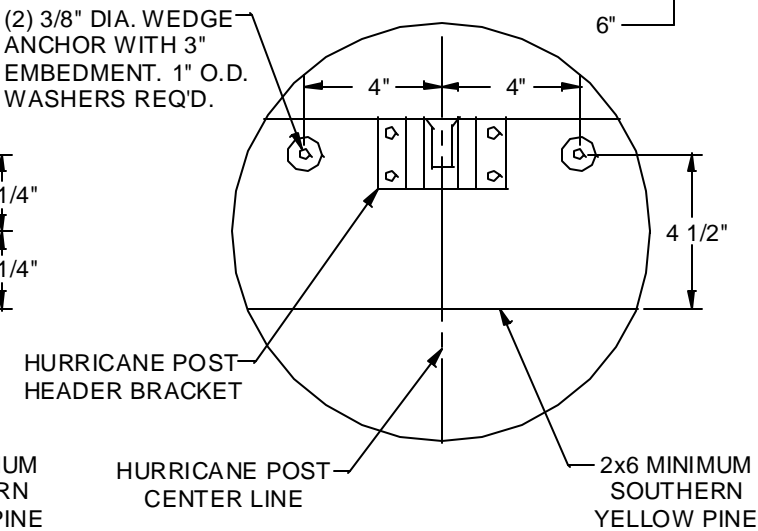
- 3/8" WEDGE ANCHOR NOTES:
- 1. SPACINGS CLOSER THAN 4 1/2 INCHES NOT RECOMMENDED.
  - 2. ANCHORS ARE TO BE 2 1/2 INCHES MINIMUM FROM EDGE OF CONCRETE.
  - 3. USE 1 INCH O.D. WASHERS.
  - 4. ALLOWABLE LOADS BASED ON 1 1/2 INCHES OF EMBEDMENT.
  - 5. 2000 PSI CONCRETE ALLOWABLE LOAD = 420 LBS PER ANCHOR.
  - 6. 3000 PSI CONCRETE ALLOWABLE LOAD = 530 LBS PER ANCHOR.

JAMB ATTACHMENT WITH
(1) VERTICAL POST

							2000 PSI CONCRETE			3000 PSI CONCRETE		
DOOR WIDTH	DOOR HEIGHT	MAX POSITIVE PRESSURE	MAX DOOR LOAD	POST LOAD AT HEADER	POST LOAD AT FLOOR	LOAD PER JAMB	1/4" X 3" ITW TAPCON	5/16" ITW SLEEVE ANCHOR	3/8" ITW WEDGE ANCHOR	1/4" X 3" ITW TAPCON	5/16" ITW SLEEVE ANCHOR	3/8" ITW WEDGE ANCHOR
(FEET)	(FEET)	(PSF)	(LBS)	(LBS)	(LBS)	(LBS)	(INCHES)	(INCHES)	(INCHES)	(INCHES)	(INCHES)	(INCHES)
16	7	55	6160	1540	1540	1540	17	22	24	24	24	24
16	8	55	7040	1760	1760	1760	15	19	23	21	24	24
18	7	55	6930	1733	1732.5	1732.5	16	19	23	21	24	24
18	8	55	7920	1980	1980	1980	14	17	20	18	23	24



HEADER FASTENERS
FOR HEADER LOADS
UP TO 2610 LBS



HEADER FASTENERS
FOR HEADER LOADS
UP TO 1740 LBS

TOLE RANCES: DIMEN SIONS ARE IN INCHES
TWO PLACE (XX) ±.03
THREE PLACE (XXX) ±.015
ANG LES ± 1°
UNLESS OTHER WISE SPECIFIED

MATER IAL:

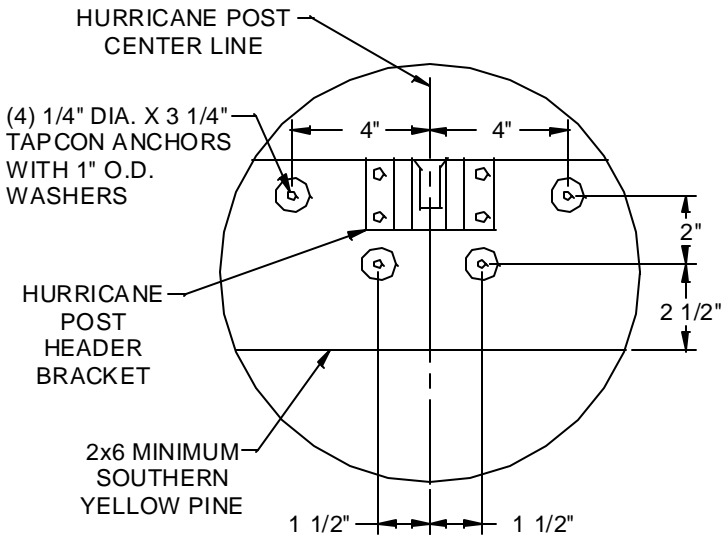
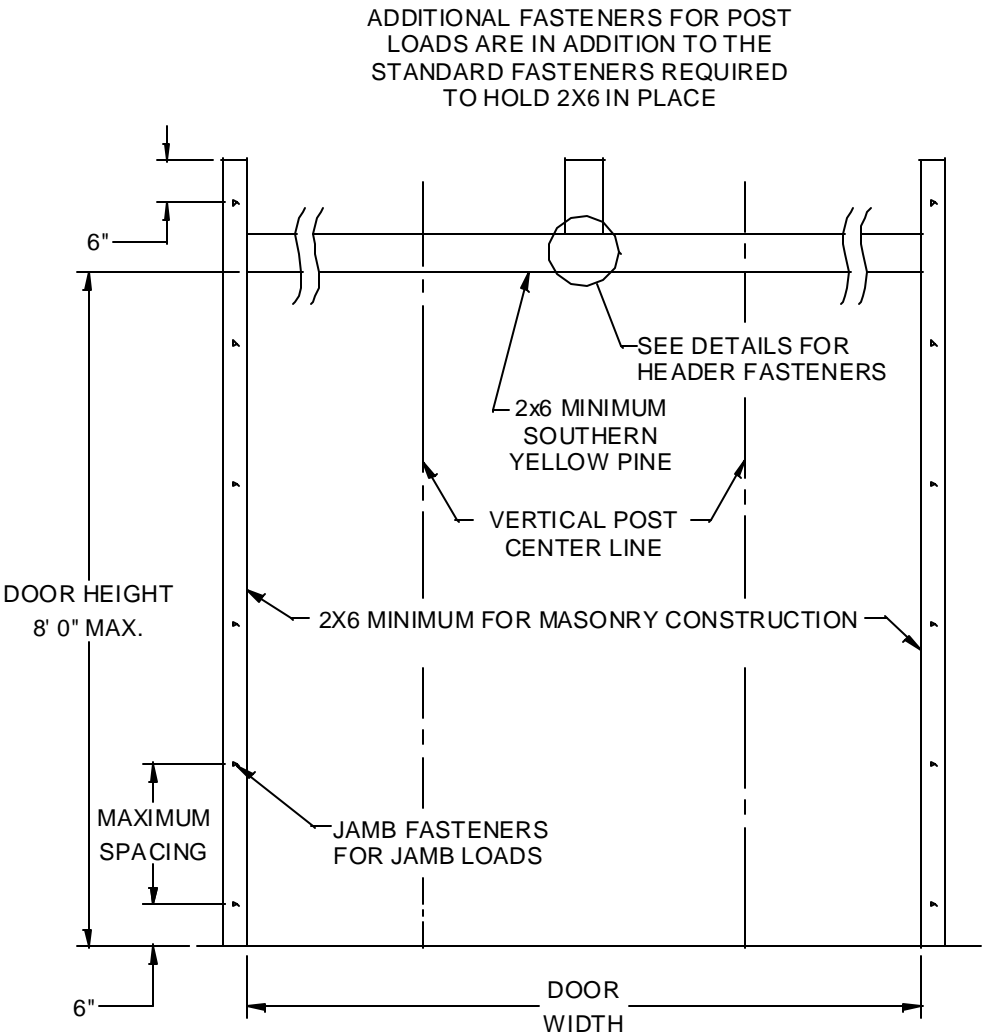
SCALE: NONE
DRAWN BY: G. WEDEKIND
CHECKED BY: G. WEDEKIND
DATE: 3/1/03
ECN. NO.:

RAYNOR
1101 EAST RIVER ROAD
DIXON, IL 61021

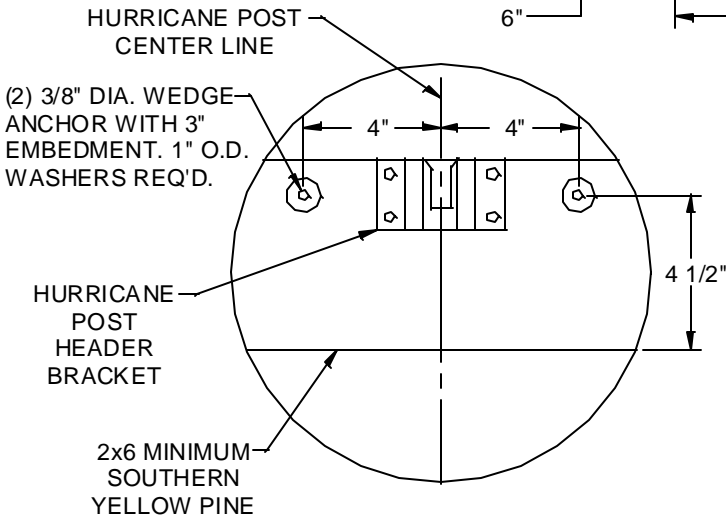
TITLE:
CHART, JAMB ATTACHEMENT
No. P-1398
SHEET 5 OF 6
REV B

MASONRY CONSTRUCTION
(2) VERTICAL POSTS

JAMB ATTACHMENT WITH (2) VERTICAL POST							2000 PSI CONCRETE			3000 PSI CONCRETE		
							1/4" X 3" ITW TAPCON	5/16" ITW SLEEVE ANCHOR	3/8" ITW WEDGE ANCHOR	1/4" X 3" ITW TAPCON	5/16" ITW SLEEVE ANCHOR	3/8" ITW WEDGE ANCHOR
DOOR WIDTH	DOOR HEIGHT	MAX POSITIVE PRESSURE	MAX DOOR LOAD	POST LOAD AT HEADER	POST LOAD AT FLOOR	LOAD PER JAMB	MAX SPACING	MAX SPACING	MAX SPACING	MAX SPACING	MAX SPACING	MAX SPACING
(FEET)	(FEET)	(PSF)	(LBS)	(LBS)	(LBS)	(LBS)	(INCHES)	(INCHES)	(INCHES)	(INCHES)	(INCHES)	(INCHES)
16	7	60	6720	1041	1041	1277	18	23	24	24	24	24
16	8	60	7680	1190	1190	1460	18	23	24	24	24	24
16	7	65	7280	1128	1128	1384	17	21	24	23	24	24
16	8	65	8320	1289	1289	1581	17	21	24	23	24	24
16	7	70	7840	1215	1215	1490	16	20	24	21	24	24
16	8	70	8960	1388	1388	1703	16	20	24	21	24	24
16	7	75	8400	1301	1301	1597	15	18	22	20	24	24
16	8	75	9600	1487	1487	1825	15	18	22	20	24	24
18	7	60	7560	1172	1172	1435	16	20	24	22	24	24
18	8	60	8640	1340	1340	1640	16	20	24	22	24	24
18	7	65	8190	1270	1270	1554	15	19	23	21	24	24
18	8	65	9360	1452	1452	1776	15	19	23	21	24	24
18	7	70	8820	1368	1368	1674	14	18	21	19	24	24
18	8	70	10080	1563	1563	1913	14	18	21	19	24	24
18	7	75	9450	1466	1466	1793	13	16	20	18	22	24
18	8	75	10800	1675	1675	2050	13	16	20	18	22	24



HEADER FASTENERS FOR HEADER LOADS UP TO 1400 LBS



HEADER FASTENERS FOR HEADER LOADS UP TO 1740 LBS

- GENERAL NOTES:
- 1. HIGHEST FASTENER TO BE INSTALLED AT LEAST AS HIGH AS THE DOOR OPENING.
  - 2. ALLOWABLE LOAD OF FASTENER IS BASED ON THE MATERIAL THE STRUCTURE IS CONSTRUCTED OF.
  - 3. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS IN ADDITION TO OTHER LOADS.
  - 4. FOR DOOR WIDTHS NOT LISTED USE NEXT WIDER WIDTH.
  - 5. 4:1 SAFETY FACTOR USED ON ALL MASONRY FASTENERS.

- TAPCON NOTES:
- 1. SPACING CLOSER THAN 3 INCHES NOT RECOMMENDED.
  - 2. TAPCONS ARE TO BE 2 1/2 INCHES MINIMUM FROM EDGE OF CONCRETE.
  - 3. USE 1 INCH O.D. WASHERS.
  - 4. ALLOWABLE LOADS BASED ON 1 1/2 INCHES OF EMBEDMENT.
  - 5. 2000 PSI CONCRETE ALLOWABLE LOAD = 280 LBS PER TAPCON.
  - 6. 3000 PSI CONCRETE ALLOWABLE LOAD = 380 LBS PER TAPCON.

- 5/16" SLEEVE ANCHOR NOTES:
- 1. SPACING CLOSER THAN 4 INCHES NOT RECOMMENDED.
  - 2. ANCHORS ARE TO BE 2 1/2 INCHES MINIMUM FROM EDGE OF CONCRETE.
  - 3. USE 1 INCH O.D. WASHERS.
  - 4. ALLOWABLE LOADS BASED ON 1 1/4 INCHES EMBEDMENT.
  - 5. 2000 PSI CONCRETE ALLOWABLE LOAD = 350 LBS PER ANCHOR.
  - 6. 3000 PSI CONCRETE ALLOWABLE LOAD = 480 LBS PER ANCHOR.

- 3/8" WEDGE ANCHOR NOTES:
- 1. SPACINGS CLOSER THAN 5 INCHES NOT RECOMMENDED.
  - 2. ANCHORS ARE TO BE 2 1/2 INCHES MINIMUM FROM EDGE OF CONCRETE.
  - 3. USE 1 INCH O.D. WASHERS.
  - 4. ALLOWABLE LOADS BASED ON 1 1/2 INCHES OF EMBEDMENT.
  - 5. 2000 PSI CONCRETE ALLOWABLE LOAD = 420 LBS PER ANCHOR.
  - 6. 3000 PSI CONCRETE ALLOWABLE LOAD = 530 LBS PER ANCHOR.

REV.	DESCRIPTION	ECN. NO.	DATE

TOLE RANCES:  
DIME NSIONS ARE IN INCHES  
TWO PLACE (XX) ± .03  
THREE PLACE (XXX) ± .015  
ANG LES ± 1°  
UNLESS OTHER WISE SPECIFIED

MATER IAL:

FINISH:

SCALE: NONE  
DRAWN BY: G. WEDEKIND  
CHECKED BY: G. WEDEKIND  
DATE: 3/1/03  
ECN. NO.:

TITLE:  
CHART, JAMB ATTACHEMENT

NO. P-1398

SHEET 6 OF 6

REV B

1101 EAST RIVER ROAD  
DIXON, IL 61021